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V.—*Floræ Insularum Novæ Zelandiæ Precursor; or a Specimen of the Botany of the Islands of New Zealand.* By ALLAN CUNNINGHAM, Esq.

[Continued from vol. ii. p. 214.]

HALORAGEÆ, R. Br.

1. CERCODIA, Murray, Lamarck.

*Calycis tubus* ovario adnatus, limbus 4-partitus. *Petala* 4. *Stam.* 8.

*Stigmata* 4, sessilia. *Fructus* nucamentaceus, indehiscens, tetraqueter, 4-alatus, 4-ocularis, 4-spermus.

526. *C. erecta*, foliis (oppositis) petiolatis ovato-lanceolatis grosse dentatis, 2—3 uncialibus ; floribus in axillis superioribus sessilibus aggregato-verticillatis. *DC. Prodr.* iii. p. 67. *A. Rich. Fl. Nov. Zel.* p. 324.—*Haloragis alata.* *Jacq. Ic.* 1. t. 69.

*Ti* or *Toa-Toa*, incol. *D'Urville.*

New Zealand (Northern Island).—1769, *Sir Jos. Banks.* Open fern-grounds, Bay of Islands.—1826, *A. Cunningham.*

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*Kohutu-hutu* vulgo ab incolis dicitur.

The berries of this fine plant, which emit a delicious perfume, and are produced in great abundance during the summer months in New Zealand, contain a large portion of sugar, and on that account are eaten with avidity, both by the natives and the birds of those islands. How Forster could have so misunderstood the fruit of this shrub as to have described it as a capsule, and in consequence erected it into a genus distinct from *Fuchsia*, to which all subsequent botanists (saving M. Ach. Richard, who retains Forster's genus) have referred it, is difficult to understand.

\*\* *Flores apetalæ.*

534. *F. procumbens* (R. C. Mss.), caule procumbente adscendente, ramis gracilibus glabris, foliis sparsis alternis longe petiolatis lato-ellipticis subrotundisve obtusis basi subinde cordatis remote denticulatis ciliatis, paginis glabris, pedicellis solitariis axillaribus (in ramulis lateralibus) flore ter brevioribus, perianthio infundibuliformi, lobis lanceolatis reflexis tubo brevioribus, stylo elongato filiformi stamina exserta superante, stigmatibus dilatato lobato, pilis patentibus tenuiter instructo!

*Totera* indigenis.

New Zealand (Northern Island). Around the village of Matauri on the east coast opposite the Cavallos Isles, inhabiting the sands immediately above the range of the tide, where it was found in flower in March.—1834, *R. Cunningham*.

*Fruticulus* decumbens, virgatus. *Rami* patentés, graciles, glabri, teretes, juniores foliati. *Folia* subuncialia venosa, basi cordiformia, minute denticulata, utrinque glabra. *Petioles* unciales, complanato-filiformes, glabriusculi supra canaliculati. *Flores* axillares, solitarii, erecti. *Perianthium* tubulosum, aurantio-luteum, limbus 4-partitus reflexus, laciniis æqualibus lanceolatis acutis viridibus, apicibus purpureo-luridis. *Stamina* octo, filamenta faucibus inserta. *Antheræ* ovatae, biloculares, peltatae. *Ovarium* 4-loculare, loculis pluriovulatis, ovulis obovatis erectis. *Stylus* complanatus, staminibus longior. *Stigma* clavatum, lobatum. *Bacca*—?

2. *EPILOBIUM, L.*

535. *E. nummularifolium* (R. C. Mss.) foliis oppositis (lineam unam longis) subrotundis carnosissimis petiolatis integris subcrenatisve glabris subtus glaucis, floribus pedicellatis axillaribus solitariis, fructibus pedunculatis albobulentibus, caule repente.—*E. pendulum.* *Sol. Mss. in Bibl. Banks.*

New Zealand (Northern Island).—1769, *Sir Jos. Banks.* Shores of the Keri Keri river, and in dry as well as in boggy grounds.—1834, *Rich. Cunningham.*

536. *E. pedunculare*, repens, radicans, parum pubescens, foliis oppositis

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534. *F. procumbens* (R. C. Mss.), caule procumbente adscendente, ramis gracilibus glabris, foliis sparsis alternis longe petiolatis lato-ellipticis subrotundisve obtusis basi subinde cordatis remote denticulatis ciliatis, paginis glabris, pedicellis solitariis axillaribus (in ramulis lateralibus) flore ter brevioribus, perianthio infundibuliformi, lobis lanceolatis reflexis tubo brevioribus, stylo elongato filiformi stamina exserta superante, stigmatibus dilatato lobato, pilis patentibus tenuiter instructo!

*Totera* indigenis.

New Zealand (Northern Island). Around the village of Matauri on the east coast opposite the Cavallos Isles, inhabiting the sands immediately above the range of the tide, where it was found in flower in March.—1834, *R. Cunningham*.

*Fruticulus* decumbens, virgatus. *Rami* patentés, graciles, glabri, teretes, juniores foliati. *Folia* subuncialia venosa, basi cordiformia, minute denticulata, utrinque glabra. *Petioles* unciales, complanato-filiformes, glabriusculi supra canaliculati. *Flores* axillares, solitarii, erecti. *Perianthium* tubulosum, aurantio-luteum, limbus 4-partitus reflexus, laciniis æqualibus lanceolatis acutis viridibus, apicibus purpureo-luridis. *Stamina* octo, filamenta faucibus inserta. *Antheræ* ovatae, biloculares, peltatae. *Ovarium* 4-loculare, loculis pluriovulatis, ovulis obovatis erectis. *Stylus* complanatus, staminibus longior. *Stigma* clavatum, lobatum. *Bacca*—?

2. *EPILOBIUM, L.*

535. *E. nummularifolium* (R. C. Mss.) foliis oppositis (lineam unam longis) subrotundis carnosissimis petiolatis integris subcrenatisve glabris subtus glaucis, floribus pedicellatis axillaribus solitariis, fructibus pedunculatis albobescentibus, caule repente.—*E. pendulum.* *Sol. Mss. in Bibl. Banks.*

New Zealand (Northern Island).—1769, *Sir Jos. Banks*. Shores of the Keri Keri river, and in dry as well as in boggy grounds.—1834, *Rich. Cunningham*.

536. *E. pedunculare*, repens, radicans, parum pubescens, foliis oppositis

dicellis axillaribus flore subbrevioribus, lobis calycis lanceolatis tubo longioribus trinerviis, petala ovata duplo superantibus. *DC. Prodr.* iii. p. 39. *Bot. Reg.* t. 857.—*Skinnera excorticata.* *Forst. Gen.* t. 29. *A. Rich. Fl. Nov. Zel.* p. 331.

*Kohutu-hutu* vulgo ab incolis dicitur.

The berries of this fine plant, which emit a delicious perfume, and are produced in great abundance during the summer months in New Zealand, contain a large portion of sugar, and on that account are eaten with avidity, both by the natives and the birds of those islands. How Forster could have so misunderstood the fruit of this shrub as to have described it as a capsule, and in consequence erected it into a genus distinct from *Fuchsia*, to which all subsequent botanists (saving M. Ach. Richard, who retains Forster's genus) have referred it, is difficult to understand.

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subrotundis (2 lineas longis) membranaceis petiolatis denticulatis, floribus axillaribus solitariis, pedunculis elongatis, fructibus glabris.

New Zealand (Northern Island). Near the lake situated between Waimaté Mission House and the great forest of Hokianga.—1834, *Rich. Cunningham*.

537. *E. microphyllum*, caulibus erectis gracilibus lævibus, foliis inferioribus oppositis (vix unam lineam longis) ovalibus obtusis carnosis brevi-petiolatis integerrimis utrinque glabris aveniis, floribus solitariis axillaribus pedicellatis, fructibus brevi-pedunculatis, marginibus tantum albo-pubentibus. *A. Rich. Fl. Nov. Zel. p. 325. t. 36. f. 2.*

*Popa* vulgo incolæ nuncupant. *D'Urville*.

New Zealand (Middle Island). Dry and sandy places near Astrolabe Harbour.—1827, *D'Urville*.

538. *E. rotundifolium*, caule erectiusculo cinereo-pubescente, foliis oppositis (semiuncialibus) petiolatis subrotundis lato-ellipticisve obtusis denticulatis glabriusculis, petiolis ramulisque cinereis, floribus solitariis axillaribus pedunculatis, pedunculis incanis folio longioribus, fructibus tenuissime pubentibus. *Forst. Prodr. n. 161. DC. Prodr. iii. p. 43. A. Rich. Fl. Nov. Zel. p. 326.*—*E. flaccidum. Sol. Ms. non Brot.*

New Zealand (Northern Island)—1769, *Sir Jos. Banks*. Alluvial shores of the Kana-Kana river.—1826, *A. Cunningham*. (Middle Island). Queen Charlotte's Sound.—1773, *G. Forster*.

539. *E. thymifolium* (R.C. Ms.) ; caulibus ascendentibus cinereo-scabriusculis, foliis oppositis (2 lin. longis) ovato-oblongis obtusis crassiusculis undulatis integerrimis vel paucidenticulatis scabris, floribus solitariis geminisve axillaribus, pedunculis capsulisque albo-pubentibus.

New Zealand (Northern Island). Among fern in dry exposed situations at the Waimaté Mission Station.—1833, *R. Cunningham*.

540. *E. alsinoides*, caulibus adscendentibus divaricatis glabriusculis, foliis oppositis alternisve ovatis obtusis membranaceis integerrimis seu paucidenticulatis glabris, floribus solitariis axillaribus pedicellatis, pedunculis elongatis capsulisque tenuiter incano-pubescentibus.

New Zealand (Northern Island). Between the Waimaté and Keri-Keri Mission Stations, Bay of Islands.—1833, *R. Cunningham*.

541. *E. nerterioides*, glabrum, caule repente radicante, foliis oppositis ellipticis (2 lin. longis) obtusis petiolatis subintegerrimis margine revolutis, utrinque capsulisque lævibus, floribus solitariis axillaribus pedicellatis.

New Zealand (Northern Island). Bogs, near the Kana-Kana river, Bay of Islands.—1826, *A. Cunningham*.

542. *E. atriplicifolium*, glabriusculum, caule basi suffruticoso erecto, foliis oppositis (sup. alternis) ovato-lanceolatis rhomboideisve crassiusculis remote dentatis, floribus solitariis axillaribus breve pedicellatis, pedunculis fructiferis capsula lævi subquater brevioribus, ramulis tenuissime cano-pubentibus.

New Zealand (Northern Island). Damp woods, near the great falls of the Keri Keri river, Bay of Islands.—1833, *R. Cunningham*.

543. *E. pubens*, pubigerum, caule erecto, foliis inferioribus oppositis ovalibus ovali-oblongisve venosis obtusis petiolatis serratis, floribus axillaribus

subrotundis (2 lineas longis) membranaceis petiolatis denticulatis, floribus axillaribus solitariis, pedunculis elongatis, fructibus glabris.

New Zealand (Northern Island). Near the lake situated between Waimaté Mission House and the great forest of Hokianga.—1834, *Rich. Cunningham*.

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*Popa* vulgo incolæ nuncupant. *D'Urville*.

New Zealand (Middle Island). Dry and sandy places near Astrolabe Harbour.—1827, *D'Urville*.

538. *E. rotundifolium*, caule erectiusculo cinereo-pubescente, foliis oppositis (semiuncialibus) petiolatis subrotundis lato-ellipticisve obtusis denticulatis glabriusculis, petiolis ramulisque cinereis, floribus solitariis axillaribus pedunculatis, pedunculis incanis folio longioribus, fructibus tenuissime pubentibus. *Forst. Prodr. n. 161. DC. Prodr. iii. p. 43. A. Rich. Fl. Nov. Zel. p. 326.*—*E. flaccidum. Sol. Ms. non Brot.*

New Zealand (Northern Island)—1769, *Sir Jos. Banks*. Alluvial shores of the Kana-Kana river.—1826, *A. Cunningham*. (Middle Island). Queen Charlotte's Sound.—1773, *G. Forster*.

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New Zealand (Northern Island). Among fern in dry exposed situations at the Waimaté Mission Station.—1833, *R. Cunningham*.

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New Zealand (Northern Island). Between the Waimaté and Keri-Keri Mission Stations, Bay of Islands.—1833, *R. Cunningham*.

541. *E. nerterioides*, glabrum, caule repente radicante, foliis oppositis ellipticis (2 lin. longis) obtusis petiolatis subintegerrimis margine revolutis, utrinque capsulisque lævibus, floribus solitariis axillaribus pedicellatis.

New Zealand (Northern Island). Bogs, near the Kana-Kana river, Bay of Islands.—1826, *A. Cunningham*.

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New Zealand (Northern Island). Damp woods, near the great falls of the Keri Keri river, Bay of Islands.—1833, *R. Cunningham*.

543. *E. pubens*, pubigerum, caule erecto, foliis inferioribus oppositis ovalibus ovali-oblongisve venosis obtusis petiolatis serratis, floribus axillaribus

subrotundis (2 lineas longis) membranaceis petiolatis denticulatis, floribus axillaribus solitariis, pedunculis elongatis, fructibus glabris.

New Zealand (Northern Island). Near the lake situated between Waimaté Mission House and the great forest of Hokianga.—1834, *Rich. Cunningham*.

537. *E. microphyllum*, caulibus erectis gracilibus lævibus, foliis inferioribus oppositis (vix unam lineam longis) ovalibus obtusis carnosis brevi-petiolatis integerrimis utrinque glabris aveniis, floribus solitariis axillaribus pedicellatis, fructibus brevi-pedunculatis, marginibus tantum albo-pubentibus. *A. Rich. Fl. Nov. Zel. p. 325. t. 36. f. 2.*

*Popa* vulgo incolæ nuncupant. *D'Urville*.

New Zealand (Middle Island). Dry and sandy places near Astrolabe Harbour.—1827, *D'Urville*.

538. *E. rotundifolium*, caule erectiusculo cinereo-pubescente, foliis oppositis (semiuncialibus) petiolatis subrotundis lato-ellipticisve obtusis denticulatis glabriusculis, petiolis ramulisque cinereis, floribus solitariis axillaribus pedunculatis, pedunculis incanis folio longioribus, fructibus tenuissime pubentibus. *Forst. Prodr. n. 161. DC. Prodr. iii. p. 43. A. Rich. Fl. Nov. Zel. p. 326.*—*E. flaccidum. Sol. Ms. non Brot.*

New Zealand (Northern Island)—1769, *Sir Jos. Banks*. Alluvial shores of the Kana-Kana river.—1826, *A. Cunningham*. (Middle Island). Queen Charlotte's Sound.—1773, *G. Forster*.

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New Zealand (Northern Island). Among fern in dry exposed situations at the Waimaté Mission Station.—1833, *R. Cunningham*.

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New Zealand (Northern Island). Between the Waimaté and Keri-Keri Mission Stations, Bay of Islands.—1833, *R. Cunningham*.

541. *E. nerterioides*, glabrum, caule repente radicante, foliis oppositis ellipticis (2 lin. longis) obtusis petiolatis subintegerrimis margine revolutis, utrinque capsulisque lævibus, floribus solitariis axillaribus pedicellatis.

New Zealand (Northern Island). Bogs, near the Kana-Kana river, Bay of Islands.—1826, *A. Cunningham*.

542. *E. atriplicifolium*, glabriusculum, caule basi suffruticoso erecto, foliis oppositis (sup. alternis) ovato-lanceolatis rhomboideisve crassiusculis remote dentatis, floribus solitariis axillaribus breve pedicellatis, pedunculis fructiferis capsula lævi subquater brevioribus, ramulis tenuissime cano-pubentibus.

New Zealand (Northern Island). Damp woods, near the great falls of the Keri Keri river, Bay of Islands.—1833, *R. Cunningham*.

543. *E. pubens*, pubigerum, caule erecto, foliis inferioribus oppositis ovalibus ovali-oblongisve venosis obtusis petiolatis serratis, floribus axillaribus

subrotundis (2 lineas longis) membranaceis petiolatis denticulatis, floribus axillaribus solitariis, pedunculis elongatis, fructibus glabris.

New Zealand (Northern Island). Near the lake situated between Waimaté Mission House and the great forest of Hokianga.—1834, *Rich. Cunningham*.

537. *E. microphyllum*, caulibus erectis gracilibus lævibus, foliis inferioribus oppositis (vix unam lineam longis) ovalibus obtusis carnosis brevi-petiolatis integerrimis utrinque glabris aveniis, floribus solitariis axillaribus pedicellatis, fructibus brevi-pedunculatis, marginibus tantum albo-pubentibus. *A. Rich. Fl. Nov. Zel. p. 325. t. 36. f. 2.*

*Popa* vulgo incolæ nuncupant. *D'Urville*.

New Zealand (Middle Island). Dry and sandy places near Astrolabe Harbour.—1827, *D'Urville*.

538. *E. rotundifolium*, caule erectiusculo cinereo-pubescente, foliis oppositis (semiuncialibus) petiolatis subrotundis lato-ellipticisve obtusis denticulatis glabriusculis, petiolis ramulisque cinereis, floribus solitariis axillaribus pedunculatis, pedunculis incanis folio longioribus, fructibus tenuissime pubentibus. *Forst. Prodr. n. 161. DC. Prodr. iii. p. 43. A. Rich. Fl. Nov. Zel. p. 326.*—*E. flaccidum. Sol. Ms. non Brot.*

New Zealand (Northern Island)—1769, *Sir Jos. Banks*. Alluvial shores of the Kana-Kana river.—1826, *A. Cunningham*. (Middle Island). Queen Charlotte's Sound.—1773, *G. Forster*.

539. *E. thymifolium* (R.C. Ms.) ; caulibus ascendentibus cinereo-scabriusculis, foliis oppositis (2 lin. longis) ovato-oblongis obtusis crassiusculis undulatis integerrimis vel paucidenticulatis scabris, floribus solitariis geminisve axillaribus, pedunculis capsulisque albo-pubentibus.

New Zealand (Northern Island). Among fern in dry exposed situations at the Waimaté Mission Station.—1833, *R. Cunningham*.

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New Zealand (Northern Island). Between the Waimaté and Keri-Keri Mission Stations, Bay of Islands.—1833, *R. Cunningham*.

541. *E. nerterioides*, glabrum, caule repente radicante, foliis oppositis ellipticis (2 lin. longis) obtusis petiolatis subintegerrimis margine revolutis, utrinque capsulisque lævibus, floribus solitariis axillaribus pedicellatis.

New Zealand (Northern Island). Bogs, near the Kana-Kana river, Bay of Islands.—1826, *A. Cunningham*.

542. *E. atriplicifolium*, glabriusculum, caule basi suffruticoso erecto, foliis oppositis (sup. alternis) ovato-lanceolatis rhomboideisve crassiusculis remote dentatis, floribus solitariis axillaribus breve pedicellatis, pedunculis fructiferis capsula lævi subquater brevioribus, ramulis tenuissime cano-pubentibus.

New Zealand (Northern Island). Damp woods, near the great falls of the Keri Keri river, Bay of Islands.—1833, *R. Cunningham*.

543. *E. pubens*, pubigerum, caule erecto, foliis inferioribus oppositis ovalibus ovali-oblongisve venosis obtusis petiolatis serratis, floribus axillaribus



solitariis, pedunculis fructiferis capsula ter brevioribus. *A. Rich. Fl. Nov. Zel. p. 329. t. 36. f. 1.*

*Kata-pourogui* nomen vernaculum. *D'Urville.*

*Caulis* repens, ramis erectis vix pedalis. *Flores* parvuli, albi, breviter pedunculati.

544. *E. cinereum*, pubenti-cinereum, foliis suboppositis lineari-lanceolatis subspathulatis apice mucronulatis margine parum et distanter dentatis, floribus axillaribus solitariis, pedunculis fructiferis capsula multoties brevioribus. *A. Rich. Fl. Nov. Zel. p. 320.*

*Pou-nao-ucko*, indigenis. *D'Urville.*

New Zealand (Northern Island). Shady situations on the skirts of woods, Wangaroa, &c.—1833, *R. Cunningham.* Bay of Islands.—1827, *D'Urville.*

*Caulis* erectus, 2-pedalis. *Flores* rubelli.

545. *E. incanum*, erectum cano-villosum, foliis lineari-oblongis apice apiculo obtuso, margine pauci-remoteque dentatis, floribus axillaribus solitariis, pedunculis capsuliferis, fructu parum brevioribus.

New Zealand (Northern Island). Margins of woods, near the falls of the Waitangy river, Bay of Islands.—1834, *R. Cunningham.*

*Obs.* Species præcedenti valde affinis, sed forsan characteribus datis distincta, omnino villosior.

546. *E. hirtigerum*, strictum, dense laxèque pilosum, foliis (uncialibus) alternis sessilibus confertis angusto-lanceolatis acutiusculis supra convexis integerrimis aut raro denticulatis modice erectis subappressive, floribus axillaribus solitariis brevissime pedicellatis, capsula pedunculo fructifero multoties longiore.

New Zealand (Northern Island). Skirts of forests round Wangaroa Harbour.—1833, *R. Cunningham.*

*Caulis* erectus, bipedalis, confertim foliosus. *Flores* purpurei seu lilacini. *Capsula* (2-pollicaris) obtuse tetragona, villosa, villis lanuginosis.

547. *E. virgatum*, erectum, gracile foliis (inferioribus) oppositis linearibus (subuncialibus) acutis paucidentatis modice erectis, ramulisque tenuiter virgatis incanis, floribus axillaribus solitariis, pedunculis fructiferis capsulam subæquantibus.

New Zealand (Northern Island). In woods near the falls of the Keri-Keri river, at the head of the Kana-Kana river, &c., Bay of Islands.—1834, *R. Cunningham.*

548. *E. glabellum*, ramis erectis glabriusculis, foliis (inferioribus) oppositis oblongo-lanceolatis lanceolatisve obtusiusculis brevi-petiolatis distanter serratis, nervis margineque ciliatis, floribus axillaribus solitariis, capsula pedunculo fructifero plus triplo longiore. *Forst. Prodr. n. 160. A. Rich. Fl. Nov. Zel. p. 328.*

*Mati couragui*, indig. *D'Urville.*

New Zealand (Northern Island).—1769, *Sir Jos. Banks.* Country between the Waitangy and the Keri-Keri rivers, Bay of Islands.—1834, *R. Cunningham.* (Middle Island.)—1773, *G. Forster.*

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solitariis, pedunculis fructiferis capsula ter brevioribus. *A. Rich. Fl. Nov. Zel. p. 329. t. 36. f. 1.*

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